

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions and listings of claims in the application:

LISTING OF CLAIMS:

1 - 2. (canceled).

3. (currently amended): A recording apparatus ~~according to claim 2, comprising:~~
a recording head for performing recording on a medium according to first recording data;
a controller for managing control of said recording apparatus;
a data generator that is connected to said controller via a first transfer path, said data
generator being capable of generating said first recording data;
a memory that is connected to said data generator via a second transfer path; and
a data obtaining section for obtaining data from an external source,
wherein:
second recording data that are stored in said memory based on the data obtained
by said data obtaining section are transferred to said data generator through said second
transfer path; and
based on said second recording data that have been transferred, said data
generator generates said first recording data;
said data generator has a plurality of processing units;

said memory is capable of storing unprocessed data that are to be processed by each of said processing units and processed data that have been processed by each of said processing units;

each of said processing units:

obtains the unprocessed data from said memory via said second transfer path,

processes the obtained unprocessed data, and

transfers the processed data that have been processed to said memory via said second transfer path; wherein:

said recording head has a plurality of dot forming sections; and

said data generator has at least

a color conversion processing unit for performing color conversion processing with respect to said second recording data that have been obtained by said data obtaining section and that are stored in said memory, and

a rearrangement unit for rearranging said second recording data that have been subjected to the color conversion processing by said color conversion processing unit into data corresponding to each of said dot forming sections as said plurality of processing units.

4. (original): A recording apparatus according to claim 3, wherein:
said recording apparatus performs recording on said medium by repeating
an operation of carrying said medium in a carrying direction, and

an operation of forming dots on said medium with said plurality of dot forming sections while making said recording head move in a direction that intersects said carrying direction; and

the data that have been rearranged by said rearrangement unit are used every time the dots are formed on said medium with said plurality of dot forming sections while said recording head is moved in the direction that intersects said carrying direction.

5. (currently amended): A recording apparatus ~~according to claim 1, comprising:~~
a recording head for performing recording on a medium according to first recording data;
a controller for managing control of said recording apparatus;
a data generator that is connected to said controller via a first transfer path, said data generator being capable of generating said first recording data;
a memory that is connected to said data generator via a second transfer path; and
a data obtaining section for obtaining data from an external source,
wherein:
second recording data that are stored in said memory based on the data obtained by said data obtaining section are transferred to said data generator through said second transfer path;
based on said second recording data that have been transferred, said data generator generates said first recording data;~~wherein:~~
said data generator has a head control unit for controlling said recording head;
said first recording data stored in said memory are transferred to said head control unit via said second transfer path without passing through said first transfer path; and

said head control unit controls said recording head according to said first recording data that have been transferred via said second transfer path.

6. (currently amended): A recording apparatus ~~according to claim 1 comprising;~~
a recording head for performing recording on a medium according to first recording data;
a controller for managing control of said recording apparatus;
a data generator that is connected to said controller via a first transfer path, said data generator being capable of generating said first recording data;
a memory that is connected to said data generator via a second transfer path; and
a data obtaining section for obtaining data from an external source,
wherein:
second recording data that are stored in said memory based on the data obtained by said data obtaining section are transferred to said data generator through said second transfer path;
based on said second recording data that have been transferred, said data generator generates said first recording data; wherein:
said data obtaining section is a scanner for reading an image in an original to obtain data;
said data generator has at least a color conversion processing unit for performing color conversion processing with respect to said second recording data that have been stored in said memory based on the data obtained by said scanner;
said memory has

an image data storage area for storing said second recording data that are based on the data obtained by said scanner, and

a converted data storage area for storing the data that have been subjected to the color conversion processing by said color conversion unit; and

when said second recording data are output to an external source, said second recording data are also stored in said converted data storage area.

7. (currently amended): A recording apparatus ~~according to claim 1 comprising;~~
a recording head for performing recording on a medium according to first recording data;
a controller for managing control of said recording apparatus;
a data generator that is connected to said controller via a first transfer path, said data generator being capable of generating said first recording data;
a memory that is connected to said data generator via a second transfer path; and
a data obtaining section for obtaining data from an external source,
wherein:
second recording data that are stored in said memory based on the data obtained by said data obtaining section are transferred to said data generator through said second transfer path;
based on said second recording data that have been transferred, said data generator generates said first recording data;--wherein:

said data obtaining section is a scanner for reading an image in an original to obtain data;

said data generator has at least a color conversion processing unit for performing color conversion processing with respect to said second recording data that have been stored in said memory based on the data obtained by said scanner;

said memory has

an image data storage area for storing said second recording data that are based on the data obtained by said scanner, and

a converted data storage area for storing the data that have been subjected to the color conversion processing by said color conversion unit; and

a ratio between a size of said image data storage area and a size of said converted data storage area is set according to a read resolution with which said image is read.

8. (original): A recording apparatus according to claim 7, wherein:

the ratio between the size of said image data storage area and the size of said converted data storage area is set in levels according to a read resolution with which said image is read.

9. (original): A recording apparatus according to claim 8, wherein:

setting information about the ratio between the size of said image data storage area and the size of said converted data storage area is stored.

10. (currently amended): A recording apparatus ~~according to claim 1 comprising;~~
a recording head for performing recording on a medium according to first recording data;
a controller for managing control of said recording apparatus;

a data generator that is connected to said controller via a first transfer path, said data generator being capable of generating said first recording data;

a memory that is connected to said data generator via a second transfer path; and

a data obtaining section for obtaining data from an external source,

wherein:

second recording data that are stored in said memory based on the data obtained by said data obtaining section are transferred to said data generator through said second transfer path;

based on said second recording data that have been transferred, said data generator generates said first recording data; ~~wherein:~~

said data obtaining section is a scanner for obtaining data by reading an image in an original;

said controller is capable of generating layout data in which an image of said second recording data that are based on the data obtained by said scanner is laid out;

when an image that has been laid out is to be recorded on said medium,

said controller generates layout data in which said image is laid out, and

said data generator converts the layout data that have been transferred from said controller via said first transfer path into said first recording data; and

when an image that has not been laid out is to be recorded on said medium,

said controller does not generate data in which said image is laid out, and

said data generator converts said second recording data that have not passed through said first transfer path into said first recording data.

11. (original): A recording apparatus according to claim 10, wherein:
a resolution of said second recording data that are based on the data obtained by said scanner differs according to whether said image is to be laid out or not.

12. (original): A recording apparatus according to claim 11, wherein: when said image is to be laid out, the resolution of said second recording data is at a lower resolution compared to when said image is not to be laid out.

13. (original): A recording apparatus according to claim 10, wherein:
said recording head has a plurality of dot forming sections for forming dots on said medium; and
said data generator has a rearrangement unit for rearranging said second recording data to make the data correspond to each of said dot forming sections.

14. (original): A recording apparatus according to claim 10, wherein:
said data generator has a color conversion processing unit for performing color conversion processing with respect to the second recording data in the RGB system that have been obtained by said scanner and that are stored in said memory to convert them into recording data in the CMYK system.

15. (original): A recording apparatus according to claim 14, wherein:
based on said second recording data in the RGB system, said controller generates layout data in the RGB system in which the image of said second recording data is laid out.

16. (original): A recording apparatus according to claim 15, wherein:
a resolution of the image of the layout data generated by said controller is at a lower resolution than a resolution of the image of said first recording data.

17. (currently amended): A recording apparatus ~~according to claim 1 comprising;~~
a recording head for performing recording on a medium according to first recording data;
a controller for managing control of said recording apparatus;
a data generator that is connected to said controller via a first transfer path, said data
generator being capable of generating said first recording data;
a memory that is connected to said data generator via a second transfer path; and
a data obtaining section for obtaining data from an external source,
wherein:
second recording data that are stored in said memory based on the data obtained
by said data obtaining section are transferred to said data generator through said second
transfer path;
based on said second recording data that have been transferred, said data
generator generates said first recording data;~~— wherein:~~
said data generator has a color conversion processing unit for performing color
conversion processing with respect to said second recording data that have been obtained
by said data obtaining section and that are stored in said memory, wherein said color
conversion processing unit is capable of converting the second recording data in the RGB
system into recording data in the CMYK system;

based on said second recording data in the RGB system, said controller generates layout data in the RGB system in which the image of said second recording data is laid out;

said color conversion processing unit converts the layout data in the RGB system that have been generated by said controller into layout data in the CMYK system;

said first recording data are generated from the layout data in the CMYK system that have been converted; and

based on the generated first recording data, said recording head records on said medium the image that has been laid out.

18. (original): A recording apparatus according to claim 17, wherein:

a resolution of the image of said second recording data in the RGB system for when said controller performs layout is lower than a resolution of the image of said layout data in the CMYK system.

19. (original): A recording apparatus according to claim 17, further comprising a scanner for obtaining data by reading an image in an original,

wherein said data generator generates said second recording data in the RGB system based on the data received from said scanner.